

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-13. (Canceled).

14. (Withdrawn) A wastewater treatment apparatus that treats a wastewater containing persistent substances comprising:

a wastewater treatment bath for treating the wastewater;

an oxidizing reagent adding unit for adding an oxidizing reagent in the wastewater treatment bath; and

an alkaline reagent adding unit for adding an alkaline reagent in the wastewater treatment bath.

15. (Withdrawn) The wastewater treatment apparatus according to claim 14, wherein an acid treatment bath having an acid adding unit for adding an acid is provided on the downstream side of the wastewater treatment bath.

16. (Withdrawn) The wastewater treatment apparatus according to claim 14, wherein a concentration ratio of (oxidizing reagent carried-in effective oxygen amount (mg/L))/COD concentration in wastewater (mg/L)) in the wastewater treatment bath falls within a range from 10 to 0.7.

17. (Withdrawn) The wastewater treatment apparatus according to claim 15, wherein a pH of

the wastewater treatment bath falls within a range from 2 to 6.

18. (Withdrawn) The wastewater treatment apparatus according to claim 14, wherein an activated carbon absorbing unit for removing organic materials and/or a filtering unit for removing suspended matters in the wastewater is provided as a pre-processing unit.

19. (Currently amended) A wastewater treatment apparatus capable of removing ~~substances such as~~ persistent COD components contained in a wastewater produced and discharged in a gas purification process of a gasification facility comprising:

 a wastewater treatment bath for treating the wastewater;

 an oxidizing reagent adding unit for adding an oxidizing reagent in the wastewater treatment bath, a pH of the wastewater treatment bath being within a range from 7 to 12 based upon an alkaline reagent;

 an ultraviolet treatment unit for irradiating an ultraviolet ray; and

 an acid treatment bath having an acid adding unit for adding acid, the acid treatment bath provided on a downstream side of the wastewater treatment bath and on an upstream side of the ultraviolet treatment unit, wherein the acid treatment bath has a pH within a range of 2 to 4,

 wherein the ultraviolet treatment unit comprises:

 a pump that feeds an oxidized water oxidized in the wastewater treatment bath;

 a an ultraviolet ray-transmitting reaction bath that receives for forcing the oxidized water fed from the pump to inflow; and

an a pair of ultraviolet lamp lamps that is provided above are disposed outside the reaction bath and irradiates an ultraviolet ray toward the oxidized water in the reaction bath, so that an ultraviolet ray emitted from the pair of ultraviolet lamps passes through the reaction bath and is irradiated on the oxidized water to decompose the COD components in the oxidized water.

20. (Withdrawn) The wastewater treatment apparatus according to claim 19, wherein the alkaline reagent adding unit for adding an alkaline reagent in the wastewater treatment bath is provided.

21. (Canceled).

22. (Previously Presented) The wastewater treatment apparatus according to claim 19, wherein a concentration ratio of (oxidizing reagent carried-in effective oxygen amount (mg/L))/COD concentration in wastewater (mg/L)) in the wastewater treatment bath falls within a range from 10 to 0.7.

23. (Previously Presented) The wastewater treatment apparatus according to claim 19, wherein a concentration ratio of (oxidizing reagent carried-in effective oxygen amount (mg/L))/COD concentration in wastewater (mg/L)) in the ultraviolet treatment unit falls within a range from 20 to 0.5.

24-25. (Canceled).

26. (Withdrawn) The wastewater treatment apparatus according to claim 19, wherein an activated carbon bath and a neutralizing bath are provided on the downstream side of the ultraviolet treatment unit.

27. (Withdrawn) The wastewater treatment apparatus according to claim 19, wherein a pH adjusting unit is provided on the front stream side of the ultraviolet treatment unit.

28. (Withdrawn) The wastewater treatment apparatus according to claim 19, wherein a reducing bath is provided on the downstream side of the ultraviolet treatment unit.

29. (Withdrawn) The wastewater treatment apparatus according to claim 28, wherein an aeration bath is provided on the downstream side of the reducing bath.

30. (Withdrawn) The wastewater treatment apparatus according to claim 19, wherein an activated carbon absorbing unit for removing organic materials and/or a filtering unit for removing suspended matters in the wastewater is provided as a pre-processing unit.

31. (Currently amended) A wastewater treatment apparatus capable of removing ~~persistent substances such as~~ COD components contained in a wastewater produced and discharged in a gas purification process of a gasification facility comprising:

a wastewater treatment bath for treating the wastewater, wherein the wastewater treatment bath accommodates a pH ranging from 7 to 12;

an oxidizing reagent adding unit for adding an oxidizing reagent in the wastewater treatment bath;

an ultraviolet treatment unit for irradiating an ultraviolet ray comprising:

a pump that feeds an oxidized water oxidized in the wastewater treatment bath;

~~a~~ an ultraviolet ray-transmitting reaction bath ~~that receives~~ for forcing the oxidized water fed from the pump to inflow; and

~~an a pair of~~ ultraviolet lamp ~~lamps~~ that ~~irradiates an ultraviolet ray toward the oxidized water in~~ are provided outside the reaction bath, so that an ultraviolet ray emitted from the pair of ultraviolet lamps passes through the reaction bath and is irradiated on the oxidized water to decompose the COD components in the oxidized water; and

an acid treatment bath having an acid adding unit for adding acid, the acid treatment bath provided on a downstream side of the wastewater treatment bath and on an upstream side of the ultraviolet treatment unit, wherein the acid treatment bath accommodates a pH ranging from 2 to 4.

32. (Previously Presented) The wastewater treatment apparatus according to claim 31, wherein the wastewater treatment bath accommodates a concentration ratio of (oxidizing reagent carried-in effective oxygen amount (mg/L))/COD concentration in wastewater (mg/L)) in the wastewater treatment bath falling within a range from 10 to 0.7.

33. (Previously Presented) The wastewater treatment apparatus according to claim 31, wherein the wastewater treatment bath accommodates a concentration ratio of (oxidizing reagent carried-in effective oxygen amount (mg/L))/COD concentration in wastewater (mg/L)) in the ultraviolet treatment unit falling within a range from 20 to 0.5.